

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	14	fluid\$s and inject\$3 and "subterranean formation" and pressure with pulse and amplitude and frequency	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 14:25
S2	12	("4842070" or "4921576" or "5377756" or "5697448" or "5836393" or "6186228" or "6241019" or "6394181" or "6405796" or "3765804" or "5351754" or "3754598").pn.	USPAT	OR	OFF	2005/04/06 15:30
S3	3	S2 and pressur\$3 and pulse\$3 and inject\$3 and subterranean and formation and (amplitude or frequency)	USPAT	OR	ON	2005/04/06 09:06
S4	153	fluid\$s and inject\$3 and "subterranean formation" and pressure with pulse	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 14:27
S5	132	fluid\$s and inject\$3 and "subterranean formation" and pressure with pulse and system	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 14:42
S6	22	fluid\$s and inject\$3 and subterranean and formation and pressure with pulse and hous\$3 and plung\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/06 14:44
S7	6	("2379539" or "2355618" or "2428460" or "2572977" or "2751848" or "3277381").pn.	USPAT	OR	OFF	2005/04/06 15:33
S8	12	("2379539" or "2355618" or "2428460" or "2572977" or "2751848" or "3277381").pn.	USPAT; USOCR	OR	OFF	2005/04/20 13:30
S9	7551	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3 or inlet or outlet) and pump	US-PGPUB; USPAT	OR	ON	2005/04/07 08:59
S10	5	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3 or inlet or outlet) and pump and "positive head"	US-PGPUB; USPAT	OR	ON	2005/04/07 08:59
S11	1670	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3 or inlet or outlet) and pump and positive and head	US-PGPUB; USPAT	OR	ON	2005/04/07 09:00
S12	875	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3 or inlet or outlet) and pump and positive with (head or displace\$4)	US-PGPUB; USPAT	OR	ON	2005/04/07 09:00

S13	701	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3) and (inlet or outlet) and pump and positive with (head or displace\$4)	US-PGPUB; USPAT	OR	ON	2005/04/07 09:01
S14	57	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3) and (inlet or outlet) and pump and positive with (head or displace\$4) and "pressure pulse"	US-PGPUB; USPAT	OR	ON	2005/04/07 09:01
S15	57	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3) and (inlet or outlet) and pump and positive with (head or displace\$4) and "pressure pulse"	US-PGPUB; USPAT	OR	ON	2005/04/07 09:02
S16	41	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3) and (inlet or outlet) and pump and positive with (head or displace\$4) and "pressure pulse"	USPAT	OR	ON	2005/04/07 09:19
S17	33094	"166"/\$.ccls.	USPAT	OR	OFF	2005/04/07 09:04
S18	1	S17 and S16	USPAT	OR	OFF	2005/04/07 09:04
S19	541	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3) and (inlet or outlet) and pump and positive with (head or displace\$4)	USPAT	OR	ON	2005/04/07 09:59
S20	22	S19 and S17	USPAT	OR	ON	2005/04/07 09:19
S21	233	fluid\$1 and inject\$3 and plung\$3 and (port or hous\$3) same (inlet or outlet) same pump and positive with (head or displace\$4)	USPAT	OR	ON	2005/04/07 10:00
S22	14	S21 and S17	USPAT	OR	ON	2005/04/07 11:20
S23	8664	pressure with pulse and pump and (hous\$3 or chamber)	USPAT	OR	ON	2005/04/07 11:25
S24	269	S17 and pressure with pulse and pump and (hous\$3 or chamber)	USPAT	OR	ON	2005/04/07 11:25
S25	51	S17 and pressure with pulse and pump and (hous\$3 or chamber) and plung\$3	USPAT	OR	ON	2005/04/07 12:20
S26	0	"10686852"	US-PGPUB; USPAT	OR	OFF	2005/04/07 11:27
S27	1	10/686,852	US-PGPUB; USPAT	OR	OFF	2005/04/07 11:27
S28	1	"3520362".pn.	USPAT	OR	OFF	2005/04/07 11:38
S29	1	"3520362".pn.	US-PGPUB; USPAT	OR	OFF	2005/04/07 11:38
S30	2	"3520362".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/07 11:38

S31	3	S17 and pressure with pulse and (hous\$3 or chamber) and plung\$3 and (inlet or outlet) and subterranean near3 formation	USPAT	OR	ON	2005/04/07 13:36
S32	962	166/101;166/105;166/153-156.ccls.	USPAT	OR	OFF	2005/04/07 13:38
S33	51	166/101.ccls.	USPAT	OR	OFF	2005/04/07 13:38
S34	365	166/105.ccls.	USPAT	OR	OFF	2005/04/07 13:38
S35	233	166/153.ccls.	USPAT	OR	OFF	2005/04/07 13:38
S36	364	166/154-156.ccls.	USPAT	OR	OFF	2005/04/07 13:38
S37	4	S32 and (plunger or piston) and (inlet or outlet) and puls\$3 and pressure and inject\$3	USPAT	OR	ON	2005/04/07 14:32
S38	189	166/90.1.ccls.	USPAT	OR	OFF	2005/04/07 14:32
S39	43	S38 and (piston or plunger)	USPAT	OR	OFF	2005/04/07 14:32
S40	189	166/90.1.ccls.	USPAT	OR	OFF	2005/04/08 10:54
S41	33094	"166"/\$.ccls.	USPAT	OR	OFF	2005/04/08 10:54
S42	107	S41 and pressure with pulse and inject\$3 and (amplitude or frequency)	USPAT	OR	ON	2005/04/18 12:32
S43	33110	"166"/\$.ccls.	USPAT	OR	OFF	2005/04/18 12:30
S44	108	S43 and pressure with pulse and inject\$3 and (amplitude or frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 13:53
S45	0	S44 not S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 12:31
S46	108	S43 and pressure with pulse and inject\$3 and (amplitude or frequency)	USPAT	OR	ON	2005/04/18 12:31
S47	0	S44 not S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 12:31
S48	0	S46 not S46	USPAT	OR	ON	2005/04/18 12:32
S49	108	S43 and pressure with pulse and inject\$3 and (amplitude or frequency)	USPAT	OR	ON	2005/04/18 12:32
S50	283	166/90.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 13:54

S51	16	S50 and fluid and puls\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 13:55
S52	9	S50 and fluid and puls\$3 with pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 14:04
S53	206	S50 and fluid and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 14:05
S54	16	S50 and fluid and pressure and puls\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 14:04
S55	100	S50 and fluid and pressure and (rod or plunger or piston)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 14:05
S56	74	S50 and fluid and pressure and (rod or plunger or piston) and (inlet or outlet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:32
S57	51438	"166"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:33
S58	51438	"166"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:33
S59	12	S50 and pressur\$3 and puls\$3 and (inlet or outlet) and (plung\$3 or rod or piston)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:36
S60	512	S58 and pressur\$3 and puls\$3 and (inlet or outlet) and (plung\$3 or rod or piston)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:36

S61	345	S58 and pressur\$3 and puls\$3 and (inlet or outlet) and (plung\$3 or rod or piston) and fluid and inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:37
S62	152	S58 and pressur\$3 with puls\$3 and (inlet or outlet) and (plung\$3 or rod or piston) and fluid and inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:37
S63	150	S58 and pressur\$3 with puls\$3 and (inlet or outlet) and (plung\$3 or rod or piston) and fluid and inject\$3 and (casing or housing or chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:37
S64	138	S58 and pressur\$3 with puls\$3 and (inlet or outlet) and (plung\$3 or rod or piston) and fluid same inject\$3 and (casing or housing or chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:41
S65	4	"3227228".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/18 16:43
S66	1	S65 and pressure and pulse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:47
S67	615005	(plunger or rod or piston) with (opening or chamber or hollow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:50
S68	113013	(plunger or rod or piston) with (opening or chamber or hollow) and fluid and (inlet or outlet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:50
S69	22017	(plunger or rod or piston) with (opening or chamber or hollow) and fluid and (inlet or outlet) and inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:51
S70	15445	(plunger or rod or piston) with (opening or chamber or hollow) and fluid same (inlet or outlet) and inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:52

S71	8032	(plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) and inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:53
S72	4068	(plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) same inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:53
S73	3844	(plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) same inject\$3 and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:53
S74	3336	(plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) same inject\$3 same pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:53
S75	288	(plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) same inject\$3 same pressure and pulse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 10:54
S76	11	"166"/\$.ccls. and (plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) same inject\$3 same pressure and pulse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 09:58
S77	127	"166"/\$.ccls. and (plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) same inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 12:30
S78	492	166/268.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 12:30
S79	183	S78 and (network or multiple or plurality)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 12:46
S80	127	S78 and (network or multiple or plurality) with (wells or sites)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 13:39

S81	121	S78 and (network or multiple or plurality) with (wells or sites) and inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 12:49
S82	181	S78 and (network or multiple or plurality) and (wells or sites)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 13:45
S83	855	166/313.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 14:31
S84	196	S83 and (network or multiple or plurality) with (wells or sites) and inject\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 13:49
S85	492	166/268.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 14:41
S86	283	166/90.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 15:29
S87	931	417/554.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 15:35
S88	681	417/547.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 11:17
S89	251	417/557.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 16:15
S90	679	S88 not S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 15:37

S91	930	S88 or S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 15:37
S92	138	S91 and (plunger or piston) with (hollow or chamber) and (inlet or outlet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 15:39
S93	134	S88 and (plunger or piston) and fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/19 16:30
S94	115	S88 and (plunger or piston) and fluid and (hollow or chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 08:25
S95	931	417/554.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 08:26
S96	681	417/547.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 08:26
S97	251	417/557.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 08:26
S98	364	(S96 or S97 or S95)and (plunger or piston) and fluid and (hollow or chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 08:38
S99	245	(S96 or S97 or S95)and (plunger or piston) and fluid and (hollow or chamber) and (inlet or outlet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 09:08
S10 0	120569	L4and (plunger or piston) and fluid and (hollow or chamber) and (inlet or outlet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 09:11



S10 1	82	S96 and (plunger or piston) and fluid and (hollow or chamber) and (inlet or outlet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 09:11
S10 2	45	(plunger or rod or piston) with (opening or chamber or hollow) same fluid same (inlet or outlet) same inject\$3 same pressure with pulse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 10:54
S10 3	115	S96 and (plunger or piston) and (hollow or chamber) and fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 11:19
S10 4	13	("4842070" or "4921576" or "5377756" or "5697448" or "5836393" or "6186228" or "6241019" or "6394181" or "6405796" or "6405797" or "3765804" or "5351754" or "3754598").pn.	USPAT; USOCR	OR	OFF	2005/04/20 13:32